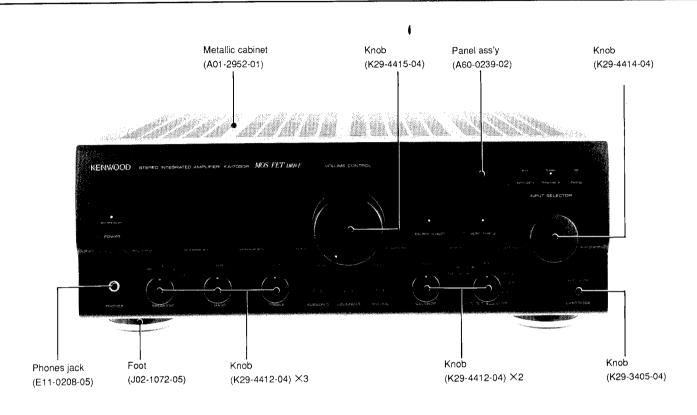
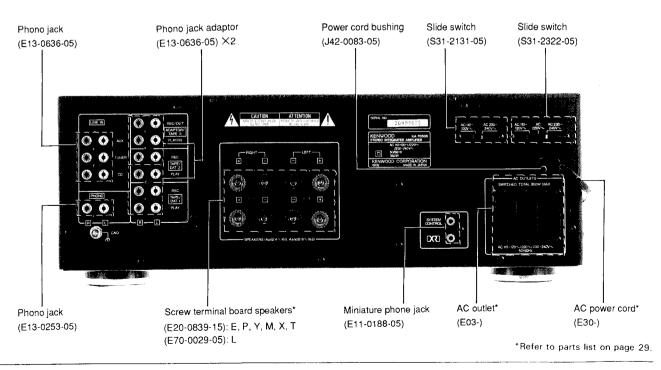
KA-7050R SERVICE MANUAL

KENWOOD

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PRECAUTIONS FOR REPAIR

Handle the power MOS-FETs carefully. They are easily destroyed by static electricity.

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SPECIFICATIONS	BACK COVER

INSTRUCTION MANUAL

B60-0882-00 ENGLISH

E, P, Y, M, X, T, L

B60-0883-00 FRENCH

E, P, L

B60-0884-00 SPANISH

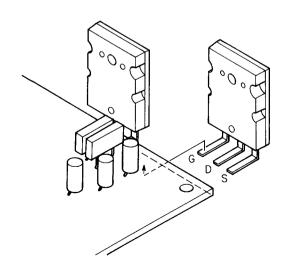
E, M, L

B60-0885-00 CHINESE

М

NOTES

- Handle the power MOS-FETs carefully. They are easily destroyed by static electricity.
- When soldering, use a high-insulation soldering iron.
- · When soldering, solder the gate (G) first.



- When replacing the power MOS-FET, there are differences according to the ranks, so please replace Pch (or Nch) as a pair of identical rank.
- The parts stock for parts of the same rank as Pch (or Nch) come in packs of pairs.

When ordering a quantity of 1, one pack (containing 2) will be delivered in one bag.

Please order as (2SK1530-LBP2, 2SJ201-LBP2). LBP2 means one pack containing one pair.

There is no need to adjust the ranks of Pch and Nch, and there is no need to adjust the ranks of the left channel and right channel either.

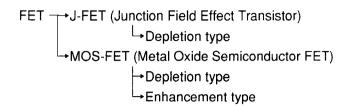
 Since the KA-7050R is a FET amp, even with no signal, nearly as much heat is generated as for maximum output.

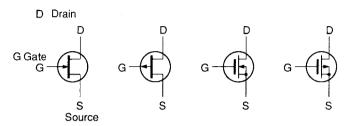
When piling sets on top of each other, put this amp at the top. Placing any other unit on top of this amp interferes with the heat release and can cause harm, so do not do this.

CIRCUIT DESCRIPTION

Characteristics of the power MOS-FET

1. Types of MOS-FET

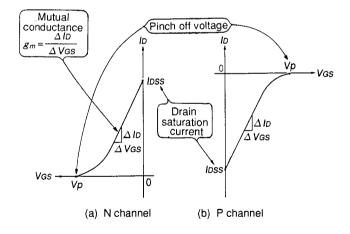




- (a) N channel JFET
- (b) P channel JFET
- (c) N channel MOS FET
- (d) P channel MOS FET

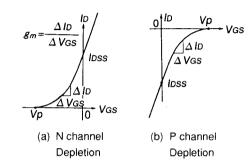
2. Characteristics of J-FET

The mutual conductance/gm corresponds to a general transistor he.



3. Characteristics of MOS-FET (Depletion type)

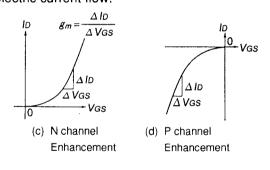
The point that differs from the J-FET is that even if the gate bias (VGS) is 0V, the current continues to flow. At this time, IDSS is not the drain saturation current.



4. Characteristics of MOS-FET (Enhancement type)

The power MOS-FET in this unite uses this type. As the gate bias voltage operates in the same way as a normal power transistor, it has a mechanism that it easy to use.

However, as the gate is voltage-controlled, there is no electric current flow.



CIRCUIT DESCRIPTION

MICROPROCESSOR (µPD75104G-778)

1. TEST MODE

1.1 Test Mode Using Mainframe Keys

(1) Setting

Plug in while pressing the SOURCE DIRECT key.

(2) Contents

- Switch the power on so that all LED indicators go on. Operate all tact keys and the rotary encoder to cancel all the LED indicators that go on. In the all-light mode, all the INPUT SELECTOR LED indicators do not go on at the same time. The next SELECTOR LED indicator goes on approximately 100 ms after one SELECTOR LED indicator goes on in the same order as during input selector selection using the rotary encoder, because the output current exceeds the absolute maximum rating when all the INPUT SELECTOR LED indicators go on, since each LED indicator is directly driven by a microcomputer.
- When the LOUDNESS key is pressed while the test mode is set with a mainframe key. The electromotive volume decreases. When the MUTING key is pressed, the volume increases. The volume stops when the SOURCE DIRECT key is pressed.

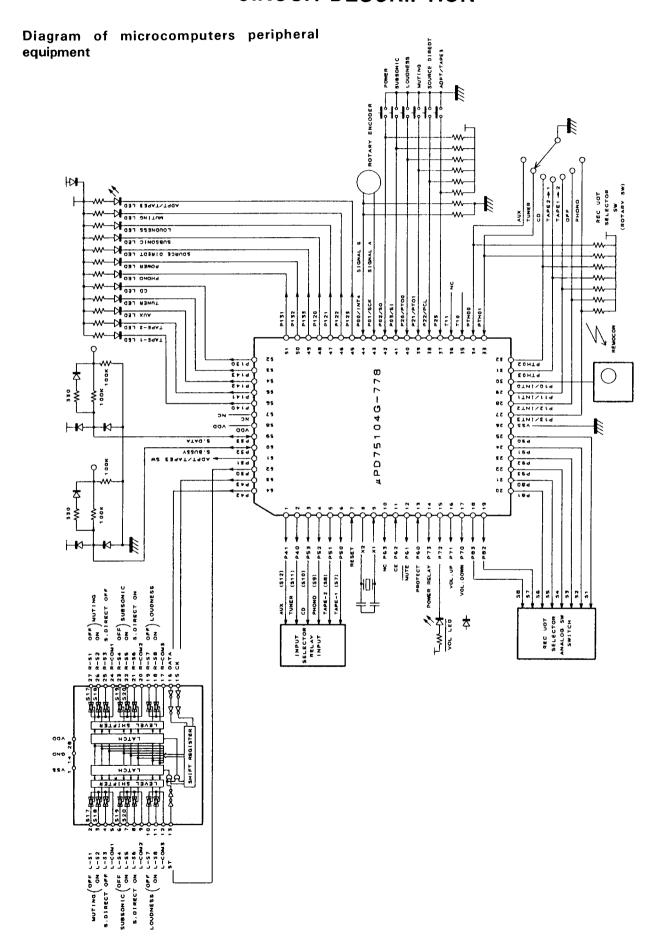
(3) Cancellation

 Plug off. If there a backup function is to be used, plug off and reset the backup check data when a test mode flag is set during backup operation.

2. INITIALIZING

Insert the AC plug into a wall outlet while pressing the POWER key.

CIRCUIT DESCRIPTION



CIRCUIT DESCRIPTION

PIN FUNCTIONS

Pin No.	Pin name	I/O	Name	Description
1	P41	0	SRAUX	AUX SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
2	P40	0	SRTUNER	TUNER SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
3	P53	0	SRCD	CD SELECT,OR RELAY control pin (high when active). Outputs a low signal in the backup mode.
4	P52	0	SRPHONO	PHONO SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
5	P51	0	SRTAPE2	TAPE2 SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
6	P50	0	SRTAPE1	TAPE1 SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
7	RESET	1		Microcomputer reset input pin.
8	X2	0		Ceramic connection pin for microcomputer system
9	X1			clock oscillation (4.19 MHz).
10	P63	0	RMUTE	Unused. Enters the input mode during backup.
11	P62	l'	ČE	Backup state detection pin (low when active). Enters the input mode during backup.
12	P61	0	MUTE	Mute signal output pin (high when active). Enters the input mode during backup.
13	P60		PROTECT	Protect state detection pin (high when active). The POWER LED indicator blinks when a high signal is input to this pin during the power-on sequence. Enters the input mode during backup.
14	P73	0	POWER RELAY	POWER RELAY control pin. POWER ON: High POWER OFF: Low
		-		Enters the input mode during backup.
15	P72	0	VOL. LED	Volume index LED control pin. Goes on: Low Goes off: High Enters the input mode during backup.
16	P71	0	VOL. UP	Electromotive volume control Up signal output pin. Volume control Up: High Except volume control Up: Low Enters the input mode during backup.
17	P70	0	VOL. DOWN	Electromotive volume control Down signal output pin. Volume control Down: High Except volume control Down: Low
18~25	P83~P90	0	RSW01 ~ RSW08	Control signal output pin of REC OUT SELECTOR analog switch (high when active). Outputs a signal according to the REC Out selector state as shown on the attached sheet, Outputs a low signal in the back-up mode.
26	Vss		GND	Microcomputer GND pin.
27	P13/INT3	1	RSWI (PHONO)	REC out selector state setting input pin (PHONO). (Low when active.)
28	P12/INT2	I	RSWI (OFF)	REC out selector state setting input pin (OFF). (Low when active.)
29	P11/INT1	I	RSWI (TAPE1→2)	REC out selector state setting input pin (TAPE1→TAPE2). (Low when active.)

CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Name	Description
30	PIO/INITO	I	REMOCON IN	Remote control signal input pin.
31	PTH03	I	RSWI (TAPE2→1)	REC out selector state setting input pin (TAPE2 → TAPE1). (Low when active.)
32	PTH02	I	RSWI (CD)	REC out selector state setting input pin (CD). (Low when active.)
33	PTHO1	l	RSWI (TUNER)	REC out selector state setting input pin (TUNER). (Low when active.)
34	РТНОО	l	RSWI (AUX)	REC out selector state setting input pin (AUX). (Low when active.)
35	TIO	ı	NC	Unused.
36	TI1	I	NC	Unused.
37	P23	l	KEYIN (ADPT/TAPE3)	ADPT/TAPE3 key input pin (low when active). Enters the input mode during backup.
38	P22/PCL	I	KEYIN (SOURCE DIRECT)	SOURCE DIRECT key input pin (low when active). Enters the input mode during backup.
39	P21/PTO1	l	KEYIN (MUTING)	MUTING key input pin (low when active). Enters the input mode during backup.
40	P20/PTO0	I	KEYIN (LOUDNESS)	LOUDNESS key input pin (low when active). Enters the input mode during backup.
41	PO3/Si	ı	KEYIN (SUBSONIC)	SUBSONIC key input pin (low when active).
42	P02/S0	ı	KEYIN (POWER)	POWER key input pin (low when active). Enters the input mode during backup.
43	PO1/SCK	I	REI A	ROTARY ENCODER A signal input pin. Enters the input mode during backup.
44	POO/INT4	I	REI B	ROTARY ENCODER B signal input pin.
45	PI23	0	ADPT/TAPE23 LED	ADPT/TAPE3 LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
46	PI22	0	MUTING LED	MUTING LED control pin (low when active). No pull- up resistor is incorporated by a mask option. Enters the input mode during backup.
47	PI21	0	LOUDNESS LED	LOUDNESS LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
48	P120	0	SUBSONIC LED	SUBSONIC LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
49	P133	0	SOURCE DIRECT LED	SOURCE DIRECT LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
50	PI32	0	POWER LED	POWER LED control pin (low when active). No pull- up resistor is incorporated by a mask option. Enters the input mode during backup.
51	PI31	0	PHONO LED	PHONO LED control pin (low when active). No pull- up resistor is incorporated by a mask option. Enters the input mode during backup.
52	PI30	0	CD LED	CD LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.

CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Name	Description
53	PI43	0	TUNER LED	TUNER LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
54	PI42	0	AUX LED	AUX LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
55	PI41	0	TAPE2 LED	TAPE1 LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
56	PI40	0	TAPE1 LED	TAPE1 LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
57	NC			
58	Vdd			Microcomputer power supply pin.
59	P33	I/O	SDATA	Serial communication SDATA signal input/output pin. Enters the input mode during backup.
60	P32	I/O	SBUSY	Serial communication SBUSY signal input/output pin. Enters the input mode during backup.
61	P31	0	ADPT/TAPE3	ADPT/TAPE3 analog switch control signal output pin. ADPT/TAPE3 ON: High ADPT/TAPE3 OFF: low Outputs a low signal in the backup mode.
62	P30	0	ST1	FUNCTION IC TC9163N ST signal output pin for MUTING, SUBSONIC, SOURCE DIRECT, and LOUDNESS. Usually set low. Outputs a low signal in the backup mode.
63	P43	0	CK1	FUNKTION IC TC9163N CK signal output pin for MUTING, SUBSONIC, SOURCE DIRECT, and LOUD-NESS. Usually set low. Outputs a low signal in the backup mode.
63	P43	0	DATA1	FUCTION IC TC9163N DATA signal output pin for MUTING, SUBSONIC, SOURCE DIRECT, and LOUD-NESS. Usually set low. Outputs a low signal in the backup mode.

ADJUSTMENT

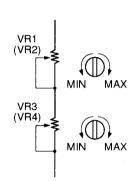
No.	Item	Input setting	Output setting	Amp setting	Adjustment location	Adjustment method	Diag.
Unles	s otherwise specified	, set the switches POWER:		REC OUT: C	OFF SELEC	CTOR: PHONO	
1	Offset voltage	_	Connect DC voltmeter to the Speaker B terminals.	VOLUME: 0		ov	
2	No-signal current		Connect DC voltmeter to CN2 (Adjustment explained below)	VOLUME: 0	VR1, VR3 (L) VR2, VR4 (R)	28 mV	(a)

No-signal current adjustment procedure

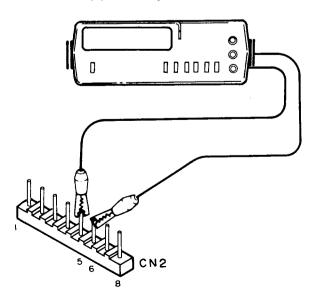
1 Turn VR1-4 all the way to the left (counter-clockwise).

(No signal current 0)

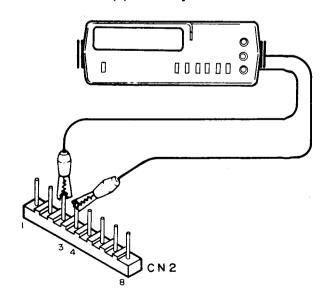
- 2 Lch adjustment
 - a) Connect the DC voltmeter to Pins 5 and 6 of CN2. (Figure a)
 - b) Turn VR1 to the right until the DC voltmeter reads 28 mV.
 - c) If the voltmeter reading does not reach 28 mV even with VR1 turned all the way to the right, turn VR3 to the right until the DC voltmeter reads 28 mV
- ③ To adjust the Rch, connect the DC voltmeter to Pins 3 and 4 of CN2, then the same as for the Lch (Figure a), adjust first with VR2, then if necessary with VR4.



(a) L ch Adjustment



(a) R ch Adjustment

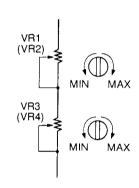


REGLAGE

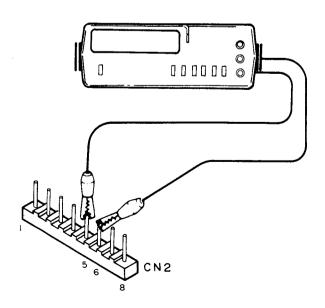
Ordre.	Sujet	Réglage d'entree	Réglage de sortie	Réglage de amplifier	Points d'ajustement	Méthode d' ajustement	Figure
Sautir	ndication contraire, régle ALIMENTATION: ON		respectifs comme suit : EUR : B SORTIE D'E	NREGISTREME	NT: OFF SE	ELECTEUR : PHO	NO
1	Tension de décalage		Brancher le voltmètre CC sur les bornes du haut-parleur B.	VOLUME: 0		0V	
2	Courant sans signal		Brancher le voltmètre CC sur CN 2 (réglage expliqué ci-dessous)	VOLUME: 0	VR1, VR3 (L) VR2, VR4 (R)	28 mV	(a)

Réglage sur courant sans signal

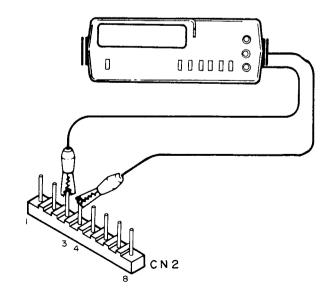
- Tourner VR 1-4 entièrement vers la gauche (dans le sens countraire des aiguilles d'une montre) (Courant sans signal 0)
- ② Réglage du canal gauche
 - a) Brancher le voltmètre CC sur les broches 5 et 6 de CN 2. (Figure a)
 - Tourner VR 1 vers la droite jusqu'à ce que le voltmètre indique 28 mV.
 - c) Si l'indication du voltmètre n'atteint pas 28 mV, même quand VR1 est tourné entièrement vers la droite, tourner VR3 vers la droite de sorte qu'il indique 28 mV.
- ③ Pour regler le canal droit, brancher le voltmètre sur les broches 3 et 4 de CN 2, de même que pour le canal gauche (figure a), régler d'abord avec VR 2, puis si nécessaire avec VR 4.



(a) Réglage du canal gauche



(a) Réglage du canal droit



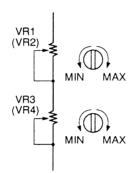
KA-7050R KA-7050R

ABGLEICH

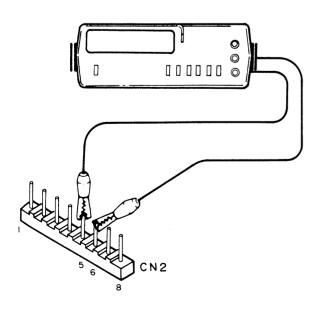
Rel- hent- olge	Gegenstand	Eingangs- Einstellung	Ausgangs-Einstellung	Amp- Einstellung	Abgleichpunkte	Abgleichmethode	Ab- bildu- ng
Wenn	Wenn nicht anders angegeben, die einzelnen Schalter wie folgt einstellen : NETZSCHALTER: ON LAUTSPRECHER: B AUFNAHMEAUSGANG: OFF REGLER: PH						
1	Verlagerungsspannung		Den Gleichstrom-Voltmeter an den Lautsprecheranschluβ Banschlieβen.	VOLUME: 0		ov	
2	Kein-Signal-Spannung	_	Den Gleichstrom-Voltmeter an CN 2 anschlieβen (unten erklärte Einstellung).	VOLUME: 0	VR1, VR3 (L) VR2, VR4 (R)	28 mV	(a)

Einstellung der Kein-Signal-Spannung

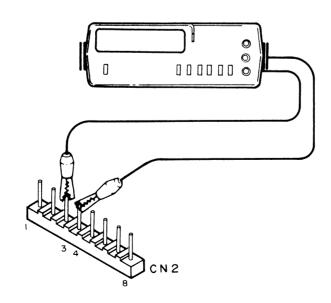
- 1 Drehen Sie VR 1-4 ganz nach links (im Gegenuhrzeigersinn) (Kein-Signal-Spannung 0)
- 2 Einstellung des linken Kanals
 - a) Schließen Sie den Gleichstrom-Voltmeter an die Pole 5 und 6 von CN 2 an (Abbildung a).
 - b) Drehen Sie VR 1 nach rechts, bis der Gleichstrom-Voltmeter 28 mv anzeigt.
 - c) Falls die Messung 28 mV nicht erreicht, selbst nachdem VR1 ganz nach rechts gedreht wurde, drehen Sie VR 3 nach rechts, bis der Gleichstrom-Voltmeter 28 mV anzeigt.
- ③ Schließen Sie den Gleichstrom-Voltmeter zur Einstellung des rechten Kanals and dir Pole 3 und 4 von CN2 an, und stellen Sie den Kanal auf die gleiche Weise wie den linken Kanal ein (Abbildung a), d.h. zuerst VR2 und dann, falls notwendig, VR4 einstellen.



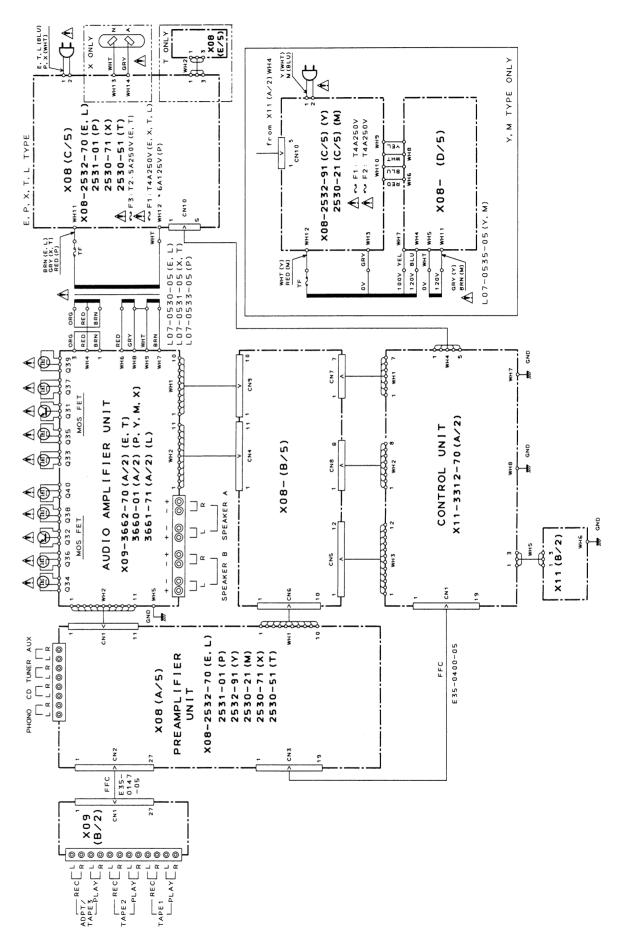
(a) Einstellung des linken Kanals



(a) Einstellung des rechten Kanals



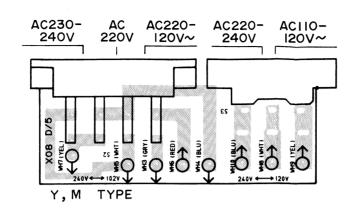
WIRING DIAGRAM

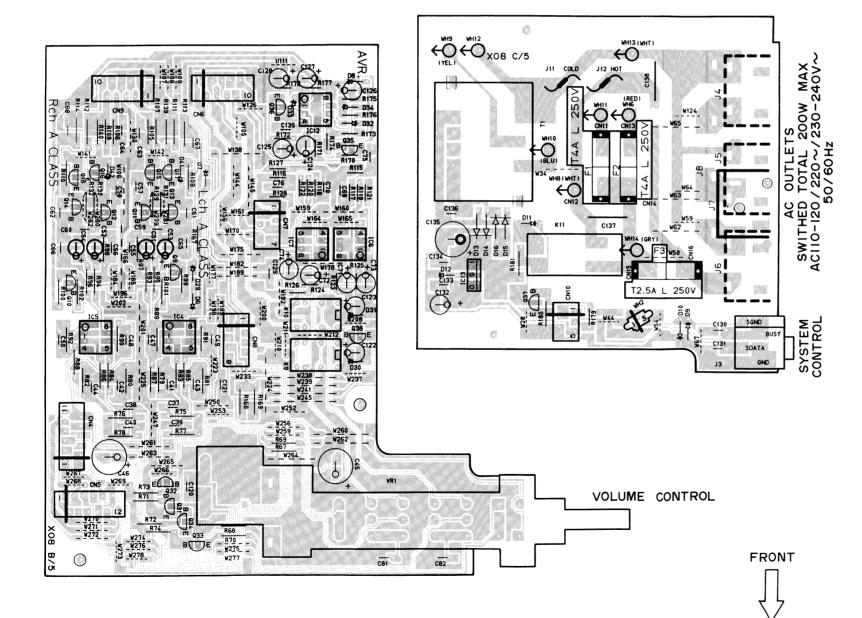


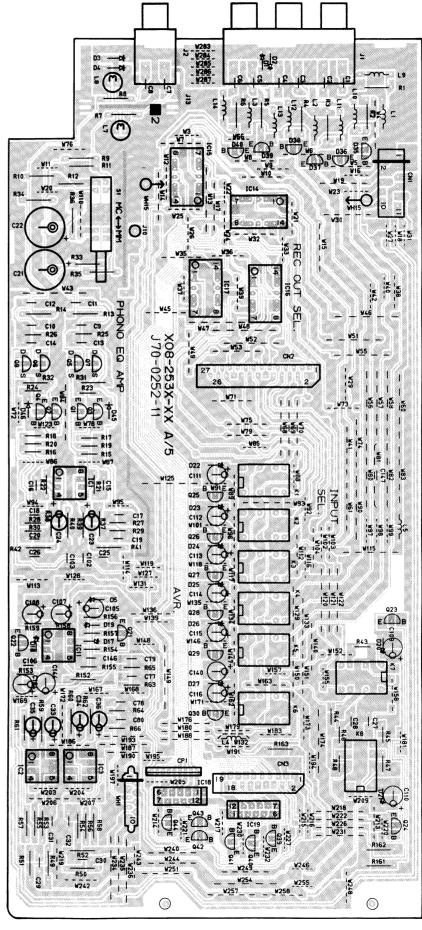
PC BOARD (Component side view)

PREAMPLIFIER UNIT (X08-253X-XX)







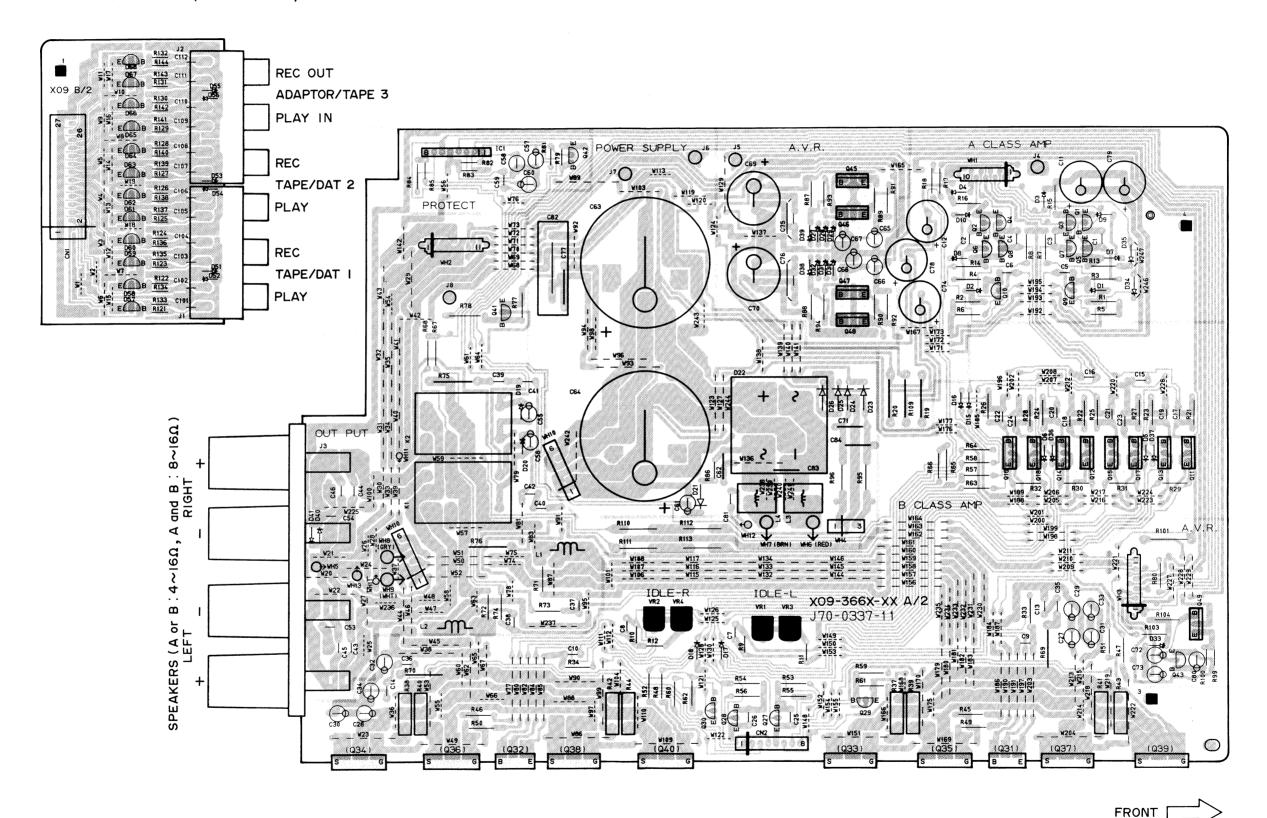


PHONO

CD TUNER AUX

PC BOARD (Component side view)

AUDIO UNIT (X09-3661-XX)



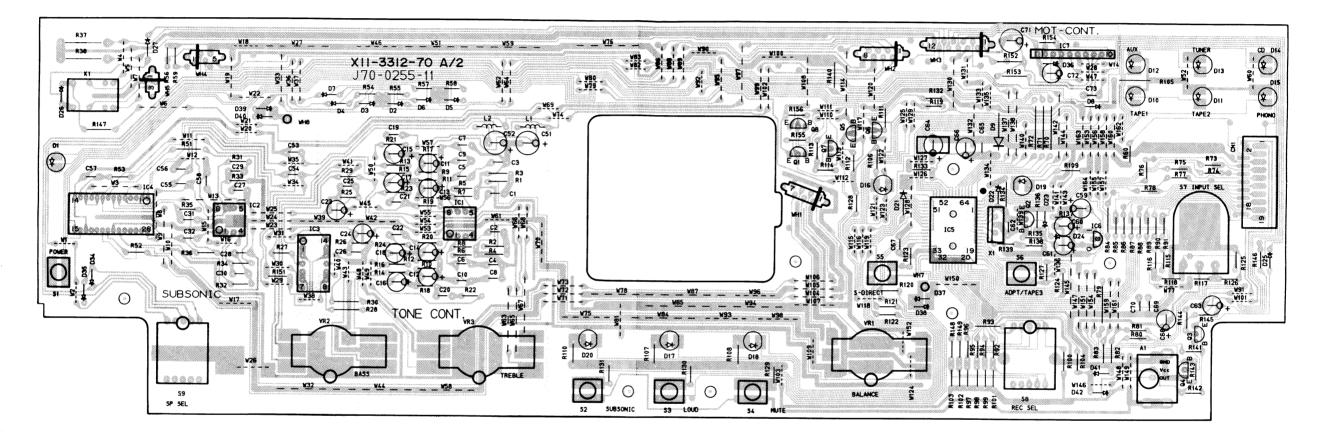
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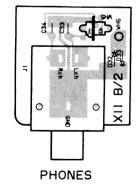
Refer to the schematic diagram for the values of resistors and capacitors.

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)

CONTROL UNIT (X11-3312-70)

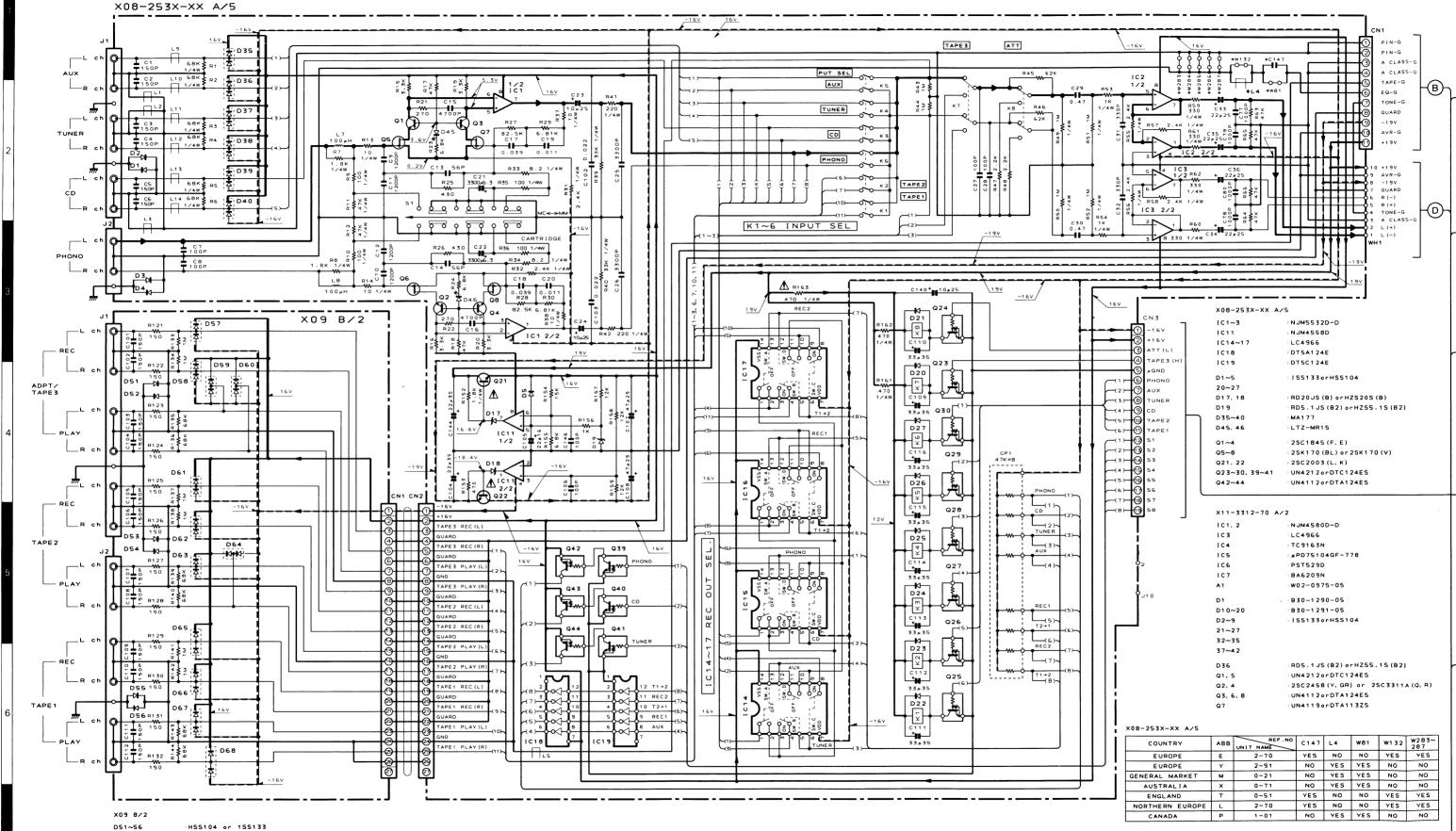




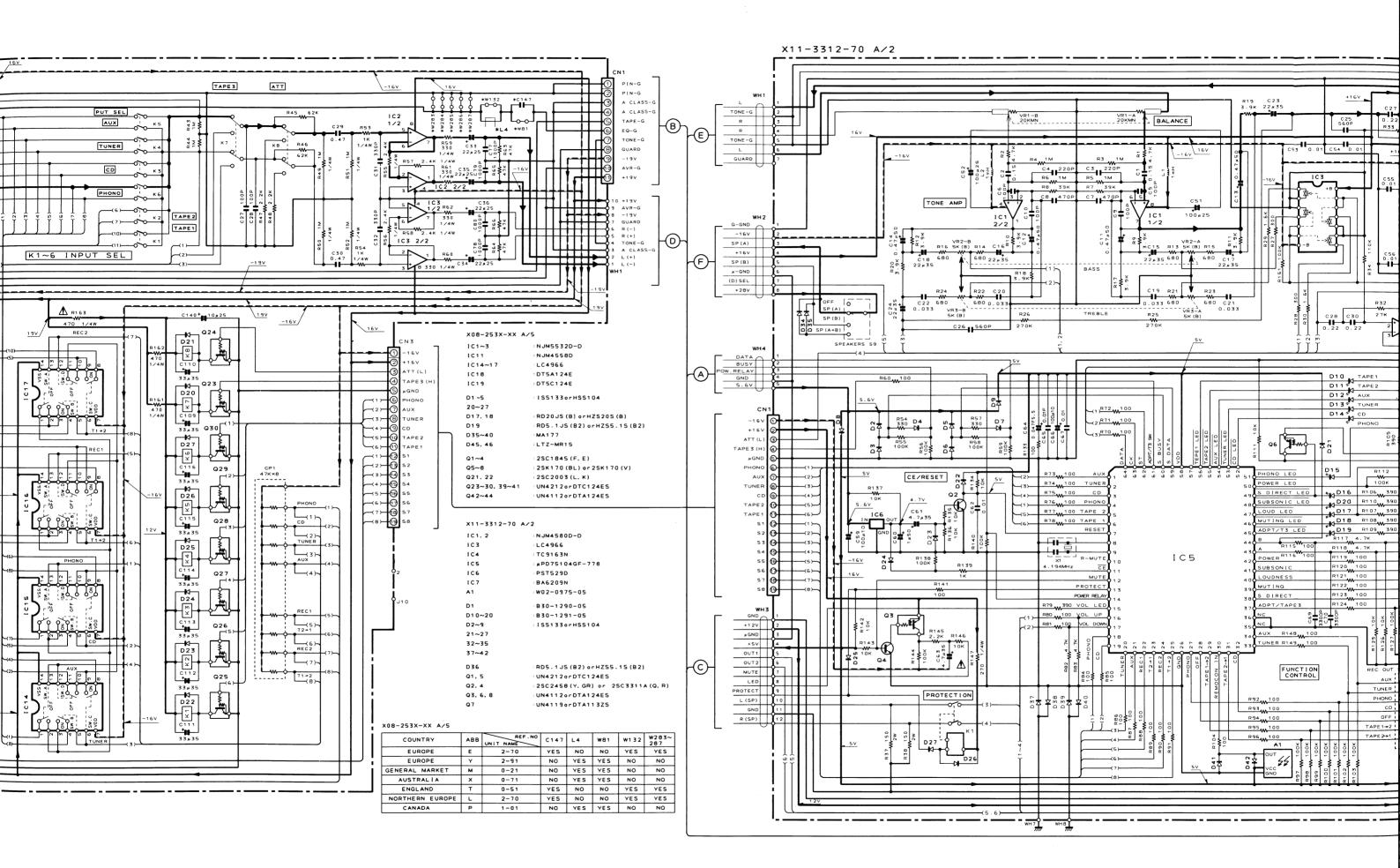
17



18

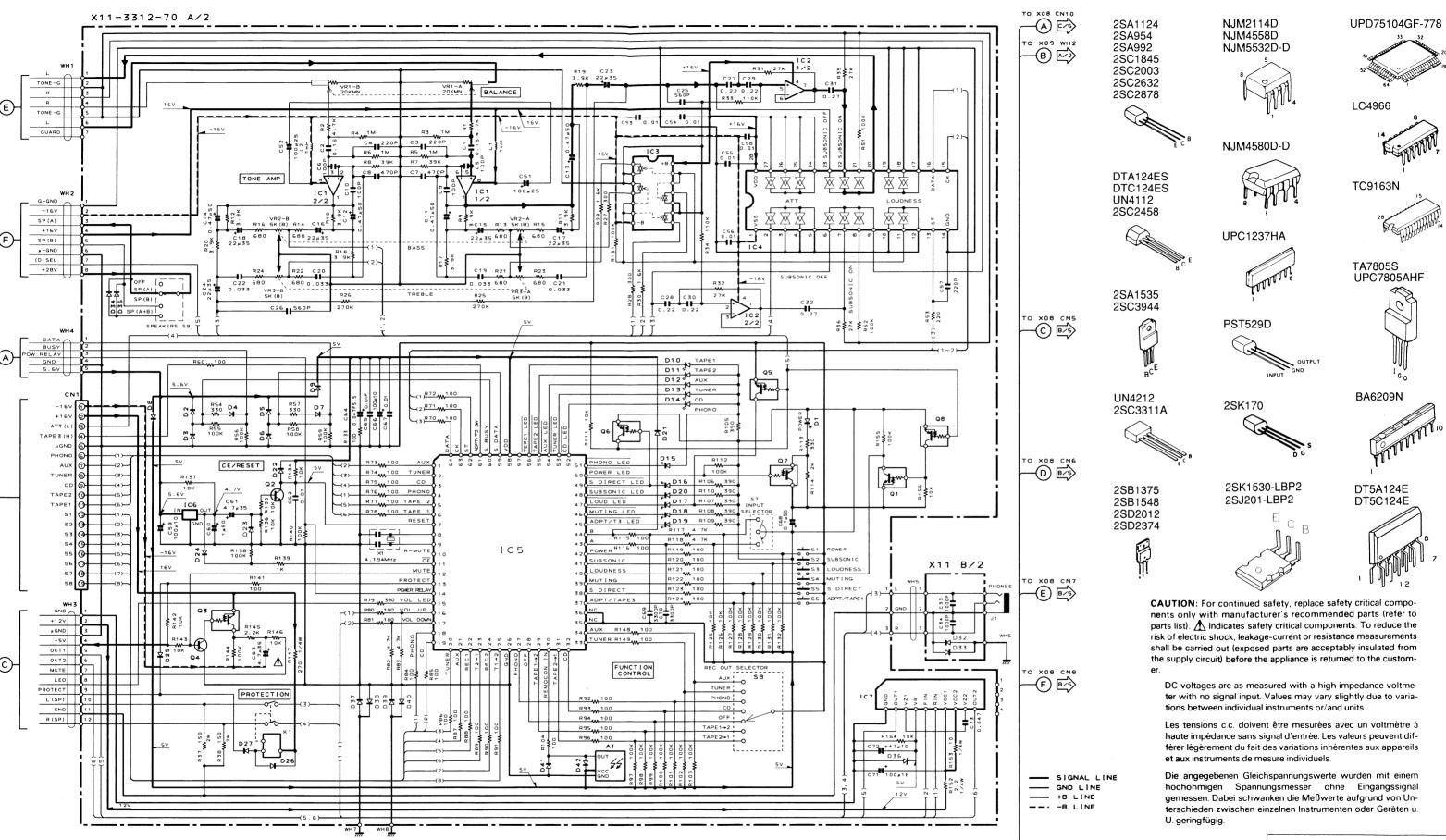


D57~68 : MA177



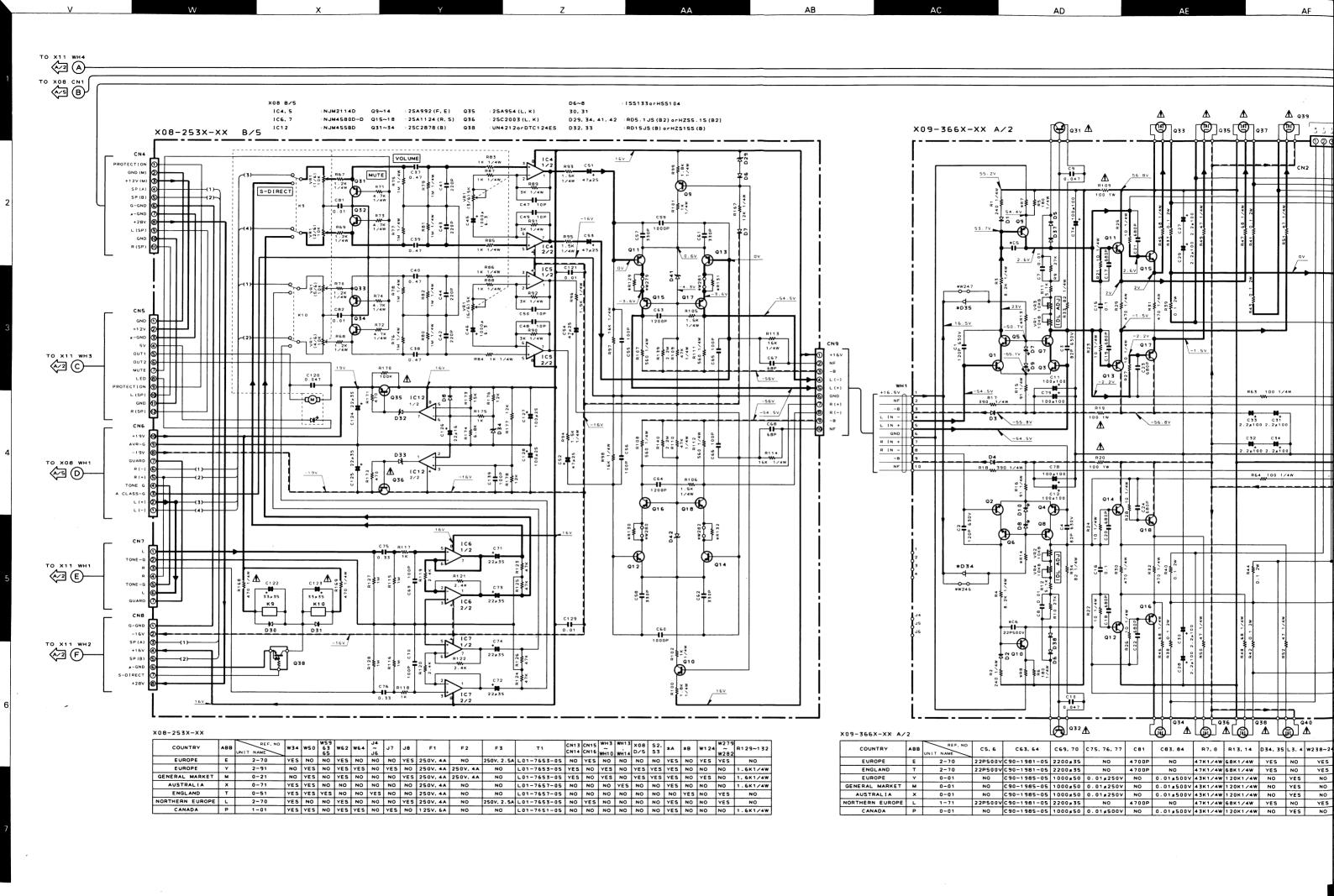
M

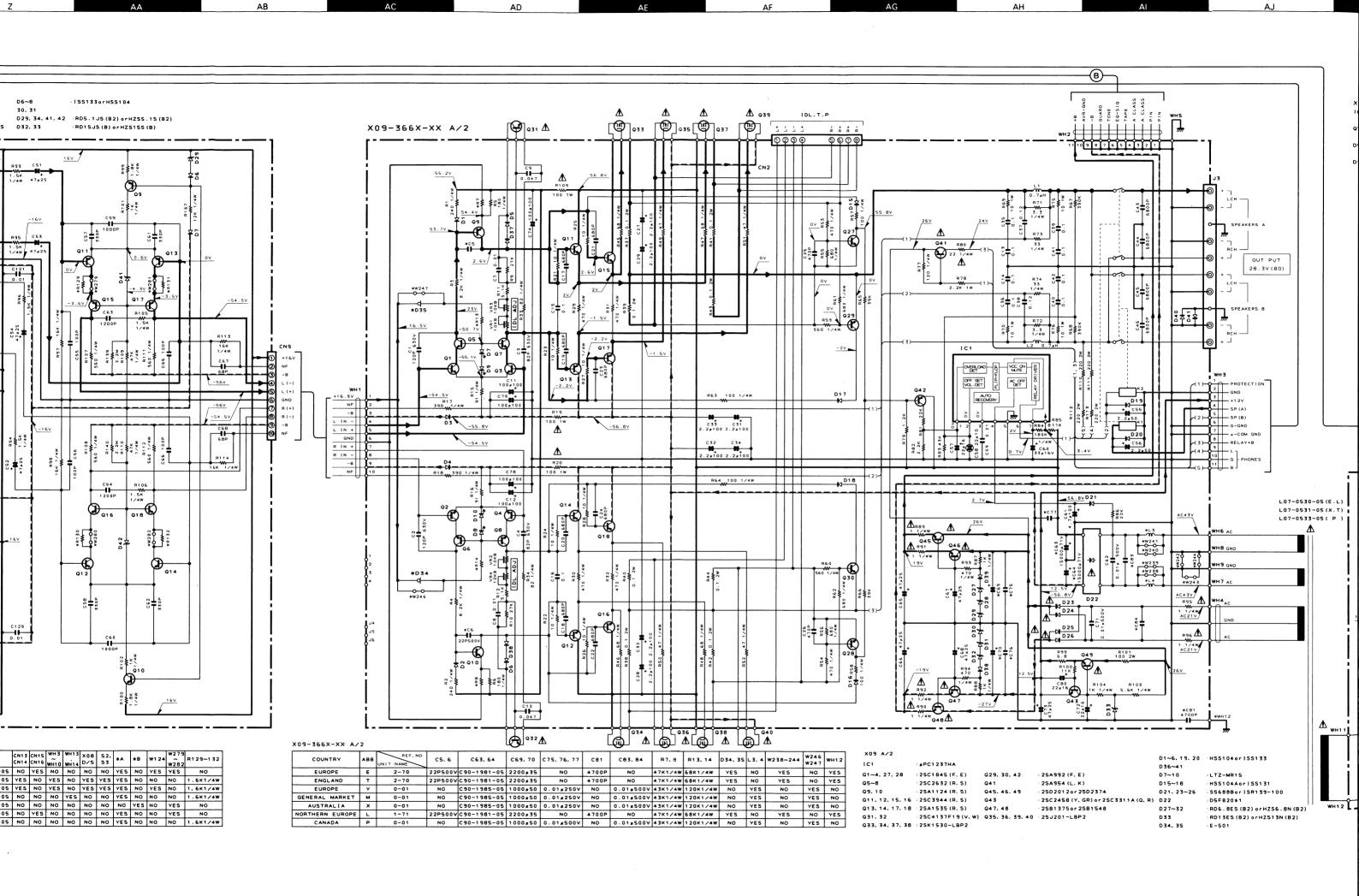
0

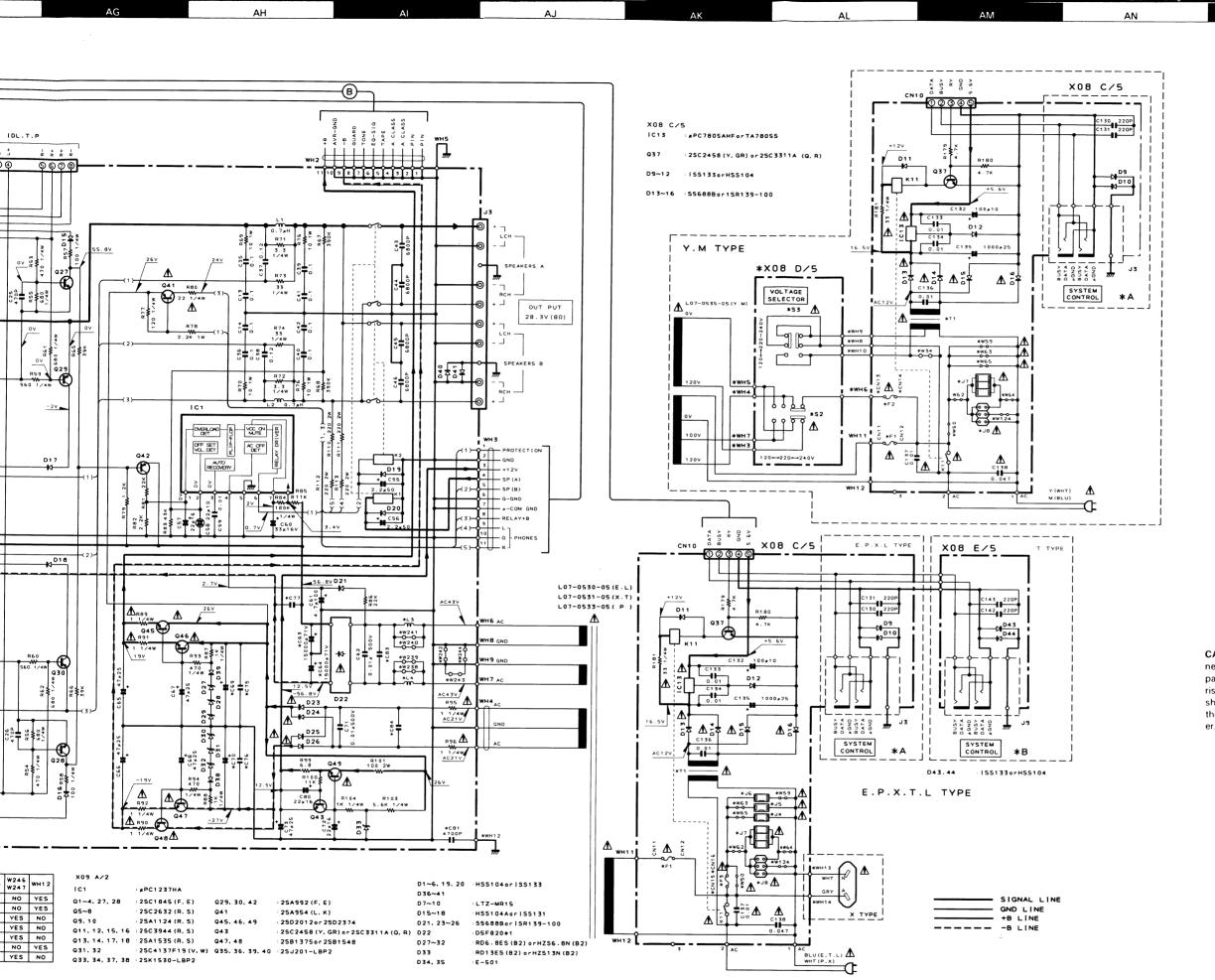


Q

KA-7050R KENWOOD







CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). A Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the custom-

AΡ

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

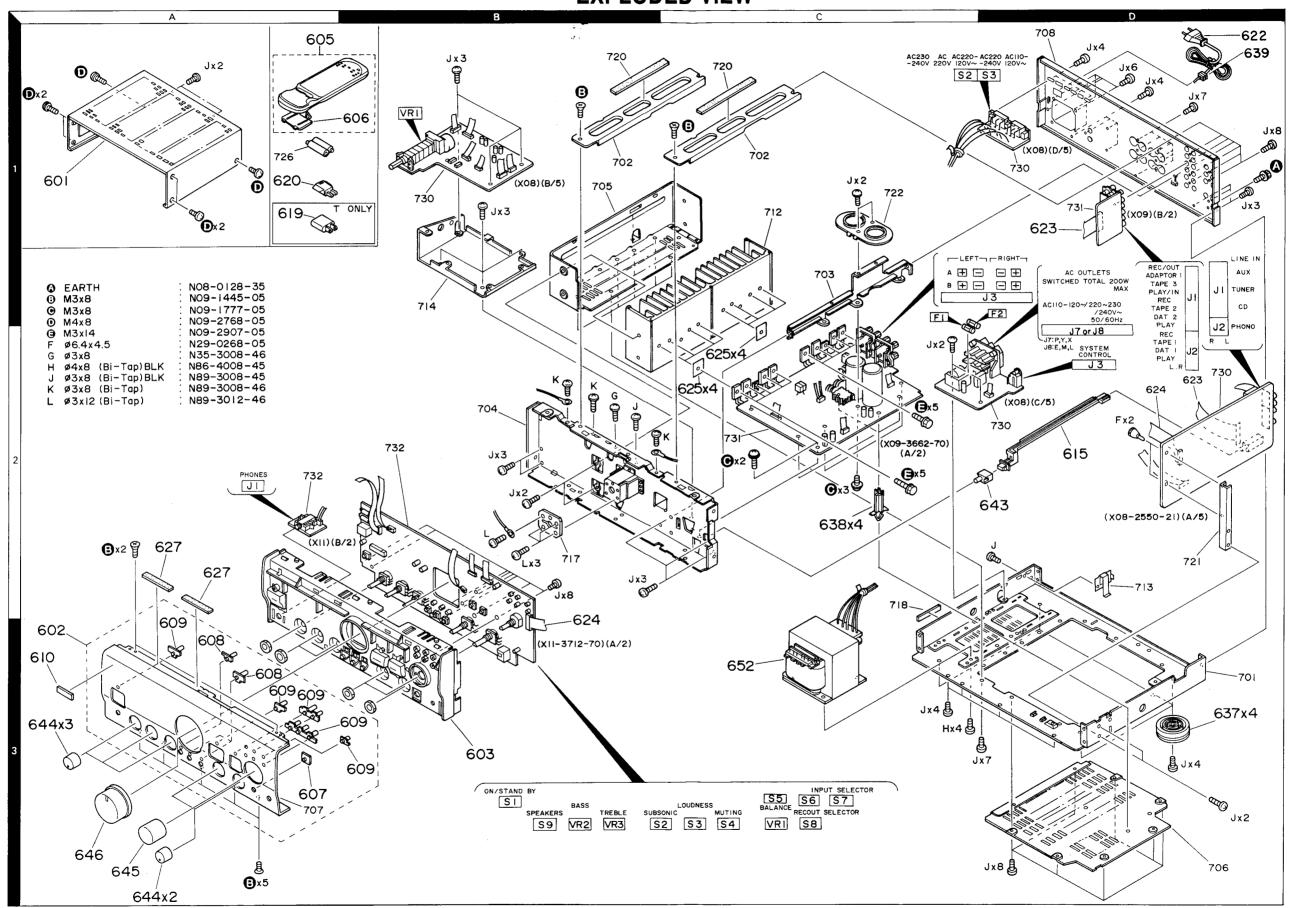
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

KA-7050R KENWOOD

KA-7050R KA-7050R

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

KA-7050R KA-7050R

PARTS LIST

PREAMPLIFIER UNIT

UNIT No.	Destination
X08-2530-21	М
X08-2530-51	Т
X08-2530-71	Х
X08-2531-01	Р
X08-2532-70	E, L
X08-2532-91	Υ

AUDIO UNIT

X09-3661-71	L
X09-3662-70	E, P, Y, M, X, T

CONTROL UNIT

	· · · · · · · · · · · · · · · · · · ·
X11-3312-70	

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

	Ref. No.	Address	New Part	1	Description	Desti-	Re-
	参照番号	位 置		1	部品名/規格		marks 備考
			-	KA-	7050R		
	601 602 603 605 606	1A 3A 3B 1A 1B	* * *	A01-2952-01 A60-0239-02 A22-1565-01 X94-1000-81 A09-0115-13	METALLIC CABINET PANEL ASSY SUB PANEL REMOTE CONTROL ASSY UNIT BATTERY COVER		
	607 608 609 610	3A 3A 3A,3B 3A	* *	B11-0252-04 B12-0205-04 B12-0211-04 B43-0287-04 B46-0094-03	COLOR FILTER INDICATOR INDICATOR KENWOOD BADGE WARRANTY CARD	Y	
	- - - -			B46-0095-03 B46-0096-33 B46-0121-13 B46-0122-23 B46-0143-13	WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD	Y X P EL T	
	- - - -		* * *	B58-0513-04 B60-0882-00 B60-0883-00 B60-0884-00 B60-0885-00	CAUTION CARD (PRESET220-240) INSTRUCTION MANUAL ENGLISH INSTRUCTION MANUAL FRENCH INSTRUCTION MANUAL SPANISH INSTRUCTION MANUAL CHINESE	Y EPL EML M	
	_		*	B60-0886-00	INSTRUCTION MANUAL GE, DU, IT	EL	
	615	2 D		D21-1658-03	EXTENSION SHAFT		
A A A A	619 620 622 622 622	1 A 1 A 1 D 1 D 1 D		E03-0049-05 E03-0115-05 E30-0459-05 E30-0685-05 E30-0974-05	AC PLUG AC PLUG ADAPTER AC POWER CORD AC POWER CORD AC POWER CORD	T M EML Y P	
	622 622 623 624 J7	1D 1D 1D,2D 3B,2D 2D	* *	E30-2714-05 E30-2718-05 E35-0147-05 E35-0400-05 E03-0141-05	AC POWER CORD AC POWER CORD FLAT CABLE X08(CN2)-X09(CN1) FLAT CABLE X08(CN3)-X11(CN1) AC OUTLET	X T	
	625	2C		F20-1322-05	INSULATING BOARD		
	627	2A		G11-1372-04	SOFT TAPE		
	- -		* *	H50-0349-04 H50-0567-04 H10-5314-02 H10-5315-02 H12-2131-04	ITEM CARTON CASE ITEM CARTON CASE POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED FIXTURE PACKING FIXTURE	EPYML XT	
	- - -			H25-0225-04 H25-0232-04 H25-0651-04 H25-0654-04	PROTECTION BAG (850X450X0.03) PROTECTION BAG (235X350X0.03) PROTECTION BAG (0232 PRINTED) PROTECTION BAG (0225 PRINTED)	EPYMXL EPYMXL T	
Δ	638	3D 2C 1D		J02-1072-05 J19-0581-05 J42-0083-05 J61-0307-05	FOOT UNIT HOLDER POWER CORD BUSHING WIRE BAND		
	644	2D 3A 3A	*	K29-3405-04 K29-4412-04 K29-4414-04	KNOB MM/MC KNOB SPEAKER, TONE, REC, OUT, SEL KNOB INPUT SELECTOR		

L:Scandinavia Y:PX(Far East, Hawaii) K:USA P:Canada

E:Europe T:England Y:AAFES(Europe) X:Australia M:Other Areas

PARTS LIST

→ New Parts

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	Ref.	No.	Addı	ress		Pa	rts	No.		escription	, , , 	Desti-	Re-
	参 照	番号	位	置	Parts 新	部	86	番号	部品	名/規	格	nation 仕 倬	marks 備考
	646		ЗА		*	K29-44	15	-04	KNOB VOLUME	CONTROL			
Δ	652 652 652 652		3C 3C 3C 3C		* * * *	L07-05 L07-05 L07-05 L07-05	31 · 33 ·	-05 -05	POWER TRANSF POWER TRANSF POWER TRANSF POWER TRANSF	ORMER ORMER		EL XT P YM	
	A B C D E		1D 2A, 2C 1A 2C	3A		N08-01 N09-14 N09-17 N09-27 N09-29	45 77 68	-05 -05 -05	BINDING POST SET SCREW SEMS (TAPTIT SEMS (TAPTIT SEMS (TAPTIT	(M3X8) E SCREW) E SCREW)	(4X8)		
	F G H J K		2D 2B 3C 2B, 2B,			N29-02 N35-30 N86-40 N89-30 N89-30	08- 08- 08-	-46 -45 -45	PUSH RIVET BINDING HEAD BINDING HEAD BINDING HEAD BINDING HEAD	TAPTITE TAPTITE	SCREW SCREW		
	L		2B			N89-30			BINDING HEAD				<u> </u>
			IFIE	RU	ПΝ			30-21: M	, 0-51: T, 0-71	: X, 1-01:	P, 2-70: E,	L, 2-9	I: Y)
	D45 ,	46				LTZ-MR	15		LED				
	C1 - C7 , C9 - C13 , C15 ,	8 12 14				CF92FV CF92FV CF92FV CC45FS CF92FV	1 H 1 1 H 1 L 1 F	101K 122J 1560J	MF. MF MF CERAMIC MF	150PF 100PF 1200PF 56PF 4700PF	K J J		
	C17 , C19 ,: C21 ,: C23 ,: C25 ,:	20 22 24				CF92FV CF92FV C90-19 C90-19 CF92FV	1 H 1 5 1 - 2 0 -	13J -05 -05	MF MF ELECTRO ELECTRO MF	0.039UF 0.011UF 3300UF 10UF 3300PF	J J 6.3WV 25WV J		
	C27 ,: C29 ,: C31 ,: C33 ~: C37	30 32 36				CF92FV CF92FV CF92FV C90-19 CF92FV	1 H 4 1 H 3 2 1 -	174J 331K -05	MF MF ELECTRO MF	100PF 0.47UF 330PF 22UF 0.47UF	K J K 25WV J		
	C41 -4 C45 ,4 C47 -9 C51 -9 C55 ,9	46 50 54			*	CF92FV CE04KW C91-14 C90-19 CF92FV	0J1 62- 22-	.02M -05 -05	MF ELECTRO FILM ELECTRO MF	220PF 1000UF 10PF 47UF 100PF	K 6.3WV K 25WV K		
	C57 ,5 C59 ,6 C61 ,6 C63 ,6	60 62 64				CF92FV CF92FV CF92FV CF92FV CF92FV	1 H 1 1 H 3 1 H 1	02J 331K 22J	MF MF MF MF	330PF 1000PF 330PF 1200PF 100PF	K J K J		
	C67 ,6 C69 ,6 C71 -6 C75 ,6 C77 -6	70 74 76				C91-14 CF92FV CE04KW CF92FV CF92FV	1 H 1 1 V 2 1 H 3	01K 220M 334J	FILM MF ELECTRO MF MF	68PF 100PF 22UF 0.33UF 1000PF	K K 35WV J J		
	C81 , C102, C104 C105 C106					CF92FV CF92FV CE04KW CE04KW CF92FV	1 H 2 1 V 2 1 C 2	23J 220M 220M	MF MF ELECTRO ELECTRO MF	0.010UF 0.022UF 22UF 22UF 100PF	J J 35WV 16WV K		

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	参照番号	位 置	Parts 新	部品番号	部品名/規格	nation marks 仕 向 備考
	C107,108 C109-116 C120 C121 C122,123			CE04KW1E470M CE04KW1V330M CK45FF1H473Z CF92FV1H103J CE04KW1V330M	ELECTRO 47UF 25WV ELECTRO 33UF 35WV CERAMIC 0.047UF Z MF 0.010UF J ELECTRO 33UF 35WV	
	C124,125 C126 C127,128 C129 C130,131			CE04KW1V220M CE04KW1C220M CE04KW1E101M CF92FV1H103J CC45FSL1H221J	ELECTRO 22UF 35WV ELECTRO 22UF 16WV ELECTRO 100UF 25WV MF 0.010UF J CERAMIC 220PF J	EPYMXL
⚠	C132 C133,134 C135 C136 C137			CE04KW1A101M CK45FF1H103Z CE04KW1E102M CK45FF1H103Z C91-1439-05	ELECTRO 100UF 10WV CERAMIC 0.010UF Z ELECTRO 1000UF 25WV CERAMIC 0.010UF Z FILM 0.01UF 250VAC	
	C138 C139 C140 C142,143 C144			C91-1444-05 CF92FV1H101K CE04KW1E100M CC45FSL1H221J CE04KW1V220M	MF 0.047UF 250VAC MF 100PF K ELECTRO 10UF 25WV CERAMIC 220PF J ELECTRO 22UF 35WV	Т
	C146 C147			CF92FV1H101K CF92FV1H103J	MF 100PF K MF 0.010UF J	ETL
	CN2 CN3 J1 J2 J3	2D 2D		E40-4167-05 E40-4159-05 E13-0636-05 E13-0253-05 E11-0188-05	FLAT CABLE CONNCTOR FLAT CABLE CONNCTOR PHONO JACK AUX, TUNER, CD PHONO JACK PHONO MINIATURE PHONE JACK SYNCHRO	EPYMXL
<u>^</u> <u>^</u> <u>^</u>	J7			E03-0109-05 E03-0111-05 E03-0131-05 E11-0188-05	AC QUTLET AC QUTLET AC QUTLET MINIATURE PHONE JACK SYNCHRO	T PY EML T
Δ	F1 F1 F1,2 F3			F05-4025-05 F05-6029-05 F05-4025-05 F05-2525-05	FUSE (SEMKO) (250V T4A) FUSE (UL) (125V 6A) FUSE (SEMKO) (250V T4A) FUSE (SEMKO) (250V T2.5A)	EXTL P YM EL
	CN11-14 CN11,12 CN15,16 J10			J13-0075-05 J13-0075-05 J13-0075-05 J11-0098-05	FUSE CLIP FUSE CLIP FUSE CLIP WIRE CLAMPER	YM EPXTL EL
	L1 -3 L1 -5 L5 L7 ,8 L9 -14			L92-0017-05 L92-0017-05 L92-0017-05 L40-1011-47 L92-0017-05	FERRITE CORE FERRITE CORE FERRITE CORE SMALL FIXED INDUCTOR(100UH,K) FERRITE CORE	ETL PYMX ETL
<u>A</u> <u>A</u>	T1			L01-7651-05 L01-7653-05 L01-7657-05	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	P EYML XT
	CP1 R27 ,28 R29 ,30 R129-132 R152		*	R90-0804-05 RN14BK2C8252FTS RN14BK2C6811FTS RN14BK2E1601FTS RD14AB2E182JTS	MULTI-COMP 47KX8 J 1/4W RN 82.5K F 1/6W RN 6.81K F 1/6W RN 1.60K F 1/4W FL-PROOF RD 1.8K J 1/4W	PYMX
	R161-163			RD14AB2E471JTS	FL-PR00F RD 470 J 1/4W	

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R168,169 R181 VR1		RD14AB2E471JTS RD14AB2E330JTS * R29-9027-05	FL-PROOF RD 470 J 1/4W FL-PROOF RD 33 J 1/4W POTENTIOMETER 10KX4 5KX2VOLUME	0
K1 -10 K11 S1 A S2 A S3		* \$76-0027-05 \$76-0002-05 \$40-6036-05 \$31-2322-05 \$31-2131-05	MAGNETIC RELAY MAGNETIC RELAY PUSH SWITCH MC/MM SLIDE SWITCH VOLTAGE SELECTOR SLIDE SWITCH VOLTAGE SELECTOR	YM YM
D1 -12 D1 -12 D1 -8 D1 -8 D11 ,12		HSS104 1SS133 HSS104 1SS133 HSS104	DIODE DIODE DIODE DIODE	EPYMXL EPYMXL T T
D11 ,12 D13 -16 D13 -16 D17 ,18 D17 ,18		1SS133 S5688B 1SR139-100 HZS20S(B) RD20JS(B)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	Т
D19 D19 D20 -27 D20 -27 D29		HZS5.1S(B2) RD5.1JS(B2) HSS104 1SS133 HZS5.1S(B2)	ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE	
D29 D30 ,31 D30 ,31 D32 ,33 D32 ,33		RD5.1JS(B2) HSS104 1SS133 HZS15S(B) RD15JS(B)	ZENER DIØDE DIØDE DIØDE ZENER DIØDE ZENER DIØDE	
D34 D34 D35 -40 D41 ,42 D41 ,42		HZS5.1S(B2) RD5.1JS(B2) MA177 HZS5.1S(B2) RD5.1JS(B2)	ZENER DIODE ZENER DIODE DIODE ZENER DIODE ZENER DIODE	
D43 ,44 D43 ,44 IC1 -3 IC4 ,5 IC6 ,7	c	HSS104 1SS133 NJM5532D-D NJM2114D NJM4580D-D	DIODE DIODE IC(OP AMP X2) IC(OP AMP X2) IC(OP AMP X2)	T
IC11,12 IC13 IC13 IC14-17 IC18		NJM4558D TA7805S UPC7805AHF LC4966 DT5A124E	IC(OP AMP X2) IC(VOLTAGE REGULATOR/ +5V) IC(VOLTAGE REGULATOR/ +5V) IC(CMOS LOGIC BILATERAL SW) IC(TRANSISTOR ARRAY)	
IC19 Q1 -4 Q5 -8 Q5 -8 Q9 -14		DT5C124E 2SC1845(F,E) 2SK170(BL) 2SK170(V) 2SA992(F,E)	IC(TRANSISTOR ARRAY) TRANSISTOR FET FET TRANSISTOR	
Q15 -18 Q21 ,22 Q23 -30 Q23 -30 Q31 -34		2SA1124(R,S) 2SC2003(L,K) DTC124ES UN4212 2SC2878(B)	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	
Q35		2SA954(L,K)	TRANSISTOR	

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P:Canada

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T:England **X**:Australia

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参照番号	位 置	新	部品番号	部品名/規格	仕 向 備考
Q36 Q37 Q37 Q38 -41 Q38 -41			2SC2003(L,K) 2SC2458(Y,GR) 2SC3311A(Q,R) DTC124ES UN4212	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
Q42 -44 Q42 -44			DTA124ES UN4112	DIGITAL TRANSISTOR	
<u> </u>	AU	IDIO		DIGITAL TRANSISTOR -71: L, 2-70: E, P, Y, M, X, T)	
D7 -10			LTZ-MR15	LED	
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10		*	C91-1475-05 C91-1473-05 CC45FSL2H220J CF92FV1H103J CF92FV1H473J	FILM 120PF J FILM 82PF K CERAMIC 22PF J MF 0.010UF J MF 0.047UF J	ETL
C11 ,12 C13 -16 C17 -24 C25 ,26 C27 -34			CE04KW2A101M CF92FV1H104J CF92FV1H681J CF92FV1H471J CE04KW2A2R2M	ELECTRO 100UF 100WV MF 0.10UF J MF 680PF J 470PF J ELECTRO 2.2UF 100WV	
C35 ,36 C37 ,38 C39 -42 C43 -46 C55 ,56			CF92FV1H104J CF92FV1H124J CF92FV1H104J CF92FV1H682J CE04KW1H2R2M	MF 0.10UF J MF 0.12UF J MF 0.10UF J MF 6800PF J ELECTRO 2.2UF 50WV	
C57 C58 C59 C60 C61			CE04KW1C220M CE04HW1A220M CK45FF1H103Z CE04KW1C330M CE04KW2A4R7M	ELECTRO 22UF 16WV NP-ELEC 22UF 10WV CERAMIC 0.010UF Z ELECTRO 33UF 16WV ELECTRO 4.7UF 100WV	
C62 C63 ,64 C63 ,64 C65 -68 C69 ,70	1	*	CK45FE2H103P C90-1981-05 C90-1985-05 CE04KW1E470M CE04KW1H102M	CERAMIC 0.010UF P ELECTRO 15000UF 71WV ELECTRO 15000UF 71WV ELECTRO 47UF 25WV ELECTRO 1000UF 50WV	ETL PYMX PYMX
C69 ,70 C71 C72 C73 C74			CE04KW1V222M CK45FE2H103P CE04KW1C220M CE04KW1E470M CE04KW2A101M	ELECTRO 2200UF 35WV CERAMIC 0.010UF P ELECTRO 22UF 16WV ELECTRO 47UF 25WV ELECTRO 100UF 100WV	ETL
C75 -77 C78 ,79 C80 C83 ,84 C101-112			C91-0971-05 CE04KW2A101M CE04KW1C220M CK45FE2H103P CF92FV1H151K	FILM 0.01UF 250WV ELECTRO 100UF 100WV ELECTRO 22UF 16WV CERAMIC 0.010UF P MF 150PF K	PYMX PYMX
CN1 J1 ,2 J3 J3	1 D		E40-4207-05 E13-0636-05 E20-0839-15 E70-0029-05	FLAT CABLE CONNCTOR PHONO JACK ADAPTOR/TAPE1,2,3 SCREW TERMINAL BOARD SPEAKERS SCREW TERMINAL BOARD SPEAKERS	EPYMXT
J4 -6			J11-0098-05	WIRE CLAMPER	
L1 ,2 L3 ,4			L39-1318-05 L39-0085-05	PHASE COMPENSATION COIL PHASE COMPENSATION COIL	PYMX
R1 ,2		*	RD14AB2E241JTS	FL-PR00F RD 240 J 1/4W	

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R3 ,4 R5 ,6 R15 ,16 R19 ,20 R21 -28	K	*	RD14AB2E822JTS RD14AB2E181JTS RD14AB2E910JTS RS14GB3A101JKW RD14AB2E100JTS	FL-PR00F RD 8.2K J 1/4W FL-PR00F RD 180 J 1/4W FL-PR00F RD 91 J 1/4W FL-PR00F RS 100 J 1W FL-PR00F RD 10 J 1/4W	
R29 -32 R33 ,34 R37 -44 R45 -48 R49 -52	K	*	RD14AB2E471JTS RD14AB2E820JTS R92-0205-05 RD14AB2E680JTS RD14AB2E470JTS	FL-PROOF RD 470 J 1/4W FL-PROOF RD 82 J 1/4W METAL-PLATE 0.1 K 2W FL-PROOF RD 68 J 1/4W FL-PROOF RD 47 J 1/4W	
R53 ,54 R55 ,56 R57 ,58 R59 ,60 R61 ,62			RD14AB2E471JTS RD14AB2E681JTS RD14AB2E101JTS RD14AB2E561JTS RD14AB2E681JTS	FL-PR00F RD 470 J 1/4W FL-PR00F RD 680 J 1/4W FL-PR00F RD 100 J 1/4W FL-PR00F RD 560 J 1/4W FL-PR00F RD 680 J 1/4W	
R63 ,64 R69 ,70 R71 ,72 R73 ,74 R75 ,76	K	*	R014AB2E101JTS RS14GB3A100JKW RD14AB2E3R3JTS RD14AB2E330JTS RS14GB3A100JKW	FL-PR00F RD 100 J 1/4W FL-PR00F RS 10 J 1W FL-PR00F RD 3.3 J 1/4W FL-PR00F RD 33 J 1/4W FL-PR00F RS 10 J 1W	
R77 R78 R80 R87 ,88 R89 -92	k	*	RD14AB2E121JTS RS14DB3A222JTE RD14AB2E220JTS RD14AB2E102JTS RD14AB2E3R3JTS	FL-PROOF RD 120 J 1/4W FL-PROOF RS 2.2K J 1W FL-PROOF RD 22 J 1/4W FL-PROOF RD 1.0K J 1/4W FL-PROOF RD 3.3 J 1/4W	
R93 ,94 R95 ,96 R101 R103 R109	k	- 1	RD14AB2E471JTS RD14AB2E1ROJTS RS14DB3D101JTE RD14AB2E562JTS RS14GB3A101JKW	FL-PR00F RD 470 J 1/4W FL-PR00F RD 1.0 J 1/4W FL-PR00F RS 100 J 2W FL-PR00F RD 5.6K J 1/4W FL-PR00F RS 100 J 1W	
R110-113 VR1 -4			RS14DB3D221JTE R12-3685-05	FL-PROOF RS 220 J 2W TRIMMING POT.(10K) IDL ADJ	
K1 ,2			S51-2096-05	MAGNETIC RELAY	
D1 -6 D1 -6 D15 -18 D15 -18 D19 ,20			HSS104 1SS133 HSS104A 1SS131 HSS104	DIODE DIODE DIODE DIODE DIODE	
D19 ,20 D21 D21 D22 D23 -26			1SS133 S5688B 1SR139-100 D5FB20*1 S5688B	DIODE DIODE DIODE DIODE DIODE	
D23 -26 D27 -32 D27 -32 D33 D33			1SR139-100 HZS6.8N(B2) RD6.8ES(B2) HZS13N(B2) RD13ES(B2)	DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
D34 ,35 D36 -41 D36 -41 D51 -56 D51 -56	k	*	E-501 HSS104 1SS133 HSS104 1SS133	CONSTANT CURRENT DIODE DIODE DIODE DIODE DIODE DIODE	ETL

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D57 -68 IC1 Q1 -4 Q5 -8 Q9 ,10		MA177 UPC1237HA 2SC1845(F,E) 2SC2632(R,S) 2SA1124(R,S)	DIODE IC(POWER AMP) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q11 ,12 Q13 ,14 Q15 ,16 Q17 ,18 Q27 ,28		2SC3944(R,S) 2SA1535(R,S) 2SC3944(R,S) 2SA1535(R,S) 2SC1845(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q29 ,30 Q31 ,32 Q33 ,34 Q35 ,36 Q37 ,38	* *	2SA992(F,E) 2SC4137F19(V,W) 2SK1530-LBP2 2SJ201-LBP2 2SK1530-LBP2	TRANSISTOR TRANSISTOR FET FET FET	
Q39 ,40 Q41 Q42 Q43 Q43	*	2SJ201-LBP2 2SA954(L,K) 2SA992(F,E) 2SC2458(Y,GR) 2SC3311A(Q,R)	FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q45 ,46 Q45 ,46 Q47 ,48 Q47 ,48 Q49		2SD2012 2SD2374 2SB1375 2SB1548 2SD2012	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q49		2SD2374	TRANSISTOR	
2.0			IIT (X11-3312-70)	
D1 D10 -20		B30-1290-05 B30-1291-05	LED (LN21RCASLX(U)-(TA4)) LED (LN21CPSLX(V)-(TA4))	
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10		CF92FV1H154J CF92FV1H221K CF92FV1H101K CF92FV1H471J CF92FV1H101K	MF 0.15UF J MF 220PF K MF 100PF K MF 470PF J MF 100PF K	
C11 -14 C15 -18 C19 -22 C23 ,24 C25 ,26		CE04KW1HR47M CE04KW1V220M CF92FV1H333J CE04KW1V220M CF92FV1H561J	ELECTRO 0.47UF 50WV ELECTRO 22UF 35WV MF 0.033UF J ELECTRO 22UF 35WV MF 560PF J	
C27 -30 C31 ,32 C33 ,34 C51 ,52 C53 -56		CF92FV1H224J CF92FV1H274J CF92FV1H102J CE04KW1E101M CF92FV1H103J	MF 0.22UF J MF 0.27UF J MF 1000PF J ELECTRO 100UF 25WV MF 0.010UF J	
C57 C58 C59 C60 C61		CC45FSL1H221J CF92FV1H103J CE04KW1A101M CE04KW1H010M CE04KW1V4R7M	CERAMIC 220PF J MF 0.010UF J ELECTRO 100UF 10WV ELECTRO 1.0UF 50WV ELECTRO 4.7UF 35WV	
C62 C63 C64 C65 C66		CK45FF1H103Z CE04KW1V4R7M C90-1826-05 CK45FF1H103Z CE04KW1A101M	CERAMIC 0.010UF Z ELECTRO 4.7UF 35WV BACKUP 0.047F 5.5WV CERAMIC 0.010UF Z ELECTRO 100UF 10WV	

L:Scandinavia

K:USA

P:Canada

Y:PX(Far East, Hawaii)
Y:AAFES(Europe)

T:England X:Australia

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description		Re- mark
参照番号	位 置	新	部品番号	部品名/規格	仕 向	備考
C67 C68 C69 ,70 C71 C72			CK45FF1H103Z CE04KW1H0R1M CK45FB1H332K CE04KW1C101M CE04KW1A470M	CERAMIC 0.010UF Z ELECTRO 0.1UF 50WV CERAMIC 3300PF K ELECTRO 100UF 16WV ELECTRO 47UF 10WV		
C73			CK45FF1H473Z	CERAMIC 0.047UF Z		
CN1 J1	3B		E40-4199-05 E11-0208-05	FLAT CABLE CONNCTOR PHONE JACK PHONES		
L1 ,2 X1			L40-1021-14 L78-0267-05	SMALL FIXED INDUCTOR(1.0MH,K) RESONATOR 4.194MHZ		
R37 ,38 R147 R152 R153 VR1		*	RS14DB3D151JTE RD14AB2E271JTS RD14AB2E2R2JTS RD14AB2E100JTS RD6-3076-05	FL-PROOF RS 150 J 2W FL-PROOF RD 270 J 1/4W FL-PROOF RD 2.2 J 1/4W FL-PROOF RD 10 J 1/4W POTENTIOMETER(20K) BALANCE		
VR2 ,3		*	R06-2027-05	POTENTIOMETER(5K) BASS, TREBLE		
K1 S1 -6 S8 S9		* * *	\$76-0027-05 \$40-1064-05 \$60-0014-05 \$60-0013-05	MAGNETIC RELAY PUSH SWITCH KEY BOARD ROTARY SWITCH REC OUT SELECTOR ROTARY SWITCH SPEAKERS		
S7		*	T99-0525-05	ROTARY ENCODER INPUT SELECTOR		
D2 -9 D2 -9 D21 -27 D21 -27 D32 -35			HSS104 1SS133 HSS104 1SS133 HSS104	DIODE DIODE DIODE DIODE		
D32 -35 D36 D36 D37 -42 D37 -42			1SS133 HZS5.1S(B2) RD5.1JS(B2) HSS104 1SS133	DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
IC1 ,2 IC3 IC4 IC5 IC6			NJM4580D-D LC4966 TC9163N UPD75104GF-778 PST529D	IC(OP AMP X2) IC(CMOS LOGIC BILATERAL SW) IC(BILATERAL SWITCH X16) IC(4BIT MICROPROCESSOR) IC(SYSTEM RESET)		
IC7 Q1 Q1 Q2 Q2			BA6209N DTC124ES UN4212 2SC2458(Y,GR) 2SC3311A(Q,R)	IC(MOTOR DRIVER) DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		
Q3 Q3 Q4 Q4 Q5			DTA124ES UN4112 2SC2458(Y,GR) 2SC3311A(Q,R) DTC124ES	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q5 Q6 Q6 Q7 Q7			UN4212 DTA124ES UN4112 DTA113ZS UN4119	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		

L:Scandinavia **Y:**PX(Far East, Hawaii)

K:USA T:England **P:**Canada **E:**Europe

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

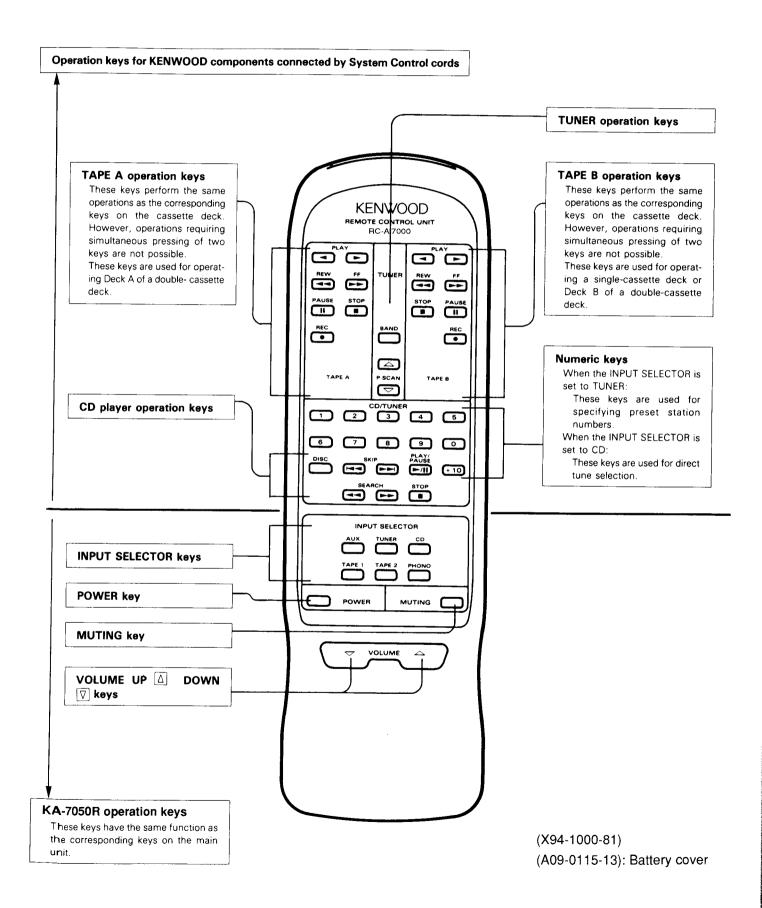
Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description	Desti- Re nation ma
参照番号	位置	新	部品番号	部品名/規格	nation ma 仕 向 備
98 98			DTA124ES UN4112	DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
.1			W02-0975-05	ELECTRIC CIRCUIT MODULE	
	1			·	

Y:AAFES(Europe)

REMOTE CONTROL OPERATION



SPECIFICATIONS

Rated Power Output

100 watts per channel minimum RMS, both channels driven, at 8Ω from 20 Hz to 20,000 Hz with no more than 0.008% total harmonic distortion.

Maximum Continuous Power Output	(DIN)						
1 kHz at 4Ω175W							
Maximum Continuous Power Output	(DIN)						
1 kHz at 8 Ω	115W						
Maximum Continuous Power Output	(IEC/NF)						
from 63 Hz to 12,500 Hz, 0.7% Tota	il Harmonic						
Distortion at 8 Ω							
Dynamic Power	360W per channel at 2 Ω						
	260W per channel at 4Ω						
	150W per channel at 8 Ω						
Total Harmonic Distortion							
(LINE input to SPEAKER output)							
Rated Output Power at 8 Ω .							
20 Hz to 20,000 Hz0.008%							
Frequency Response							
LINE (CD)5 Hz	z to 100 kHz +0 dB, -3 dB						
PHONO "RIAA" Response							
PHONO (MM) Input							
PHONO (MC) Input	20 Hz to 20 kHz \pm 0.3 dB						
Signal To Noise Ratio							
PHONO (MM) (IHF '66)							
PHONO (MC) (IHF '66)							
LINE (CD) (IHF '66)							
PHONO (MM) (IHF '78)							
PHONO (MC) (IHF '78)							
LINE (CD) (IHF '78)96 dB							
PHONO (MM) at Unweighted.							
50 mW Output (DIN)							
TUNER/AUX/TAPE/CD at Unweighted							
50 mW Output (DIN)	70 dB						

Filter	.SUBSONIC 18 Hz -18 dB/oct
Tone Control	
BASS	±10 dB at 100 Hz
TREBLE	±10 dB at 10 kHz
Loudness Control+6	dB at 100 Hz, +3 dB at 10 kHz
Damping Factor	250/50 Hz
Input Sensitivity/Impedance	
PHONO (MM)	2.5 mV 47 kΩ
PHONO (MC)	0.2 mV 100Ω
LINE (TUNER/AUX/TAPE/CD)	200 mV 47 k Ω
Phono Maximum Input Level	
MM at 1 kHz 0.08% T.H.D	120 mV
MC at 1 kHz 0.08% T.H.D	10 mV
Output Level/Impedance	
TAPE REC (Pin)	200 mV 220Ω
General	
Power Consumption	
3.8A	U.S.A. & Canada Model
350W	IEC
Dimensions	W: 440 mm
	H: 163 mm
	D: 403 mm
Weight (net)	15.4 kg

Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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